

WHAT IS CLAIMED IS:

A 1. A method for obtaining call data in a telecommunications system comprising a service control point (SCP) and a public switched telecommunications network (PSTN), including at least one switch, the method comprising:

sampling calling data, received from the switch, at the SCP; and  
formatting the sampled calling data as station message detail recording (SMDR) data.

2. The method for obtaining call data according to claim 1, further comprising generating a call data report from the SMDR data.

3. The method for obtaining call data according to claim 1, further comprising storing the sampled call data at one of a data distributor node and the SCP.

4. The method for obtaining call data according to claim 1, further comprising storing the call data report at a host processor, wherein the call data report is accessible by a customer.

5. The method for obtaining call data according to claim 1, wherein the formatting is performed by a front end server.

6. A method for obtaining call data in a telecommunications system comprising a service control point (SCP) and a public switched telecommunications network (PSTN), including at least one switch, the method comprising:

sampling calling data, received from the switch, at the SCP;  
formatting the sampled calling data as station message detail recording (SMDR) data; and

generating the call data from the SMDR data.

7. A method for reporting calling data to a telecommunications system customer comprising a service control point and a public switched telecommunications network (PSTN), including at least one service switching point, the method comprising:

A generating calling data for a telephone call from a customer's private facility involving the at least one service switching point;

sampling the calling data at the service control point;

interfacing with a front end server;

receiving the sampled calling data at the front end server;

formatting the sampled calling data into station message detail recording (SMDR) data;

receiving and storing the SMDR data at a host central processing unit; and

generating a SMDR report from the SMDR data for reference by a customer.

8. The method for obtaining call data according to claim 7, wherein the calling data comprises a calling party ID and a called party ID.

9. The method for obtaining call data according to claim 7, wherein the calling data comprises attempt data and completion data, and wherein the formatting into SMDR data comprises associating the attempt data and the completion data of the calling data to generate consolidated SMDR data.

10. The method for obtaining call data according to claim 7, wherein the interfacing with the front end server comprises transmitting the calling data from the service control point to a data distributor, the data distributor storing and sorting the calling data, and transmitting the calling data to the front end server via an interface.

11. The method for obtaining call data according to claim 10, wherein the interface comprises an American Standard Code for Information Interexchange (ASCII) interface.

12. A method for reporting calling data to a telecommunications system customer comprising a service control point and a public switched telecommunications network (PSTN), including at least one service switching point, the method comprising:

generating calling data for a telephone call from a customer's private facility at the at least one service switching point;

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sampling the calling data at the service control point;  
receiving the calling data at a data distributor;  
interfacing with a front end server;  
receiving the sampled calling data at the front end server;  
formatting the sampled calling data into station message detail recording (SMDR) data;  
receiving and storing the SMDR data at a host central processing unit; and  
generating a SMDR report from the SMDR data for reference by a customer.

13. A system for reporting calling data to a customer comprising:  
a service control point that samples calling data received from at least one service switching point in a public switched telephone network (PSTN) handling a telephone call of the customer; and

a front end server in a private network, said front end server receiving the sampled calling data from said service control point and formatting the sampled calling data into a station message detail recording (SMDR) format.

14. The system for obtaining call data according to claim 13, further comprising a central processing unit that receives the SMDR formatted data from the front end server and provides information based on the SMDR formatted data to the customer.

15. The system for obtaining call data according to claim 13, further comprising a data distributor interface node that receives the calling data from said service control point, sorts the calling data and transmits the sorted calling data to said front end server.

16. A system for reporting calling data to a customer in a telecommunications system comprising:

a plurality of service switching points that collect calling data while processing telephone calls placed from a network of the customer;

A a service control point that samples calling data from said plurality of service switching points;

a front end server that receives the sampled calling data from said service control point and formats the sampled calling data into a station message detail recording (SMDR) format; and

a host central processing unit that receives the SMDR formatted data from said front end server and generates a calling report from the SMDR formatted data, the calling report being accessible by the customer.

17. The system for reporting calling data according to claim 16, wherein the network of the customer comprises at least one of a centrex system and a PBX system.

18. The system for reporting calling data according to claim 16, further comprising a data distributor that receives the sampled calling data from said service control point and transmitting the sampled calling data to said front end server via an interface.

19. The system for reporting calling data according to claim 16, wherein the calling report generated from the SMDR formatted data is customized according to instructions received by said host central processing unit.

20. A system for reporting calling data to a customer in a telecommunications system comprising:

a plurality of service switching points that collect calling data while processing telephone calls placed from a network of the customer;

a service control point that samples calling data from said plurality of service switching points;

a data distributor that receives the sampled calling data from said service control point and transmits the sampled calling data to said front end server via an interface;

A a front end server that receives the sampled calling data from said data distributor and formats the sampled calling data into a station message detail recording (SMDR) format; and

a host central processing unit that receives the SMDR formatted data from said front end server and generates a calling report from the SMDR formatted data, the calling report being accessible by the customer.

21. The system for reporting calling data according to claim 20, wherein the interface comprises an American Standard Code for Information Interexchange (ASCII) interface.

22. The system for reporting calling data according to claim 20, wherein the sampled calling data is stored at said data distributor.

23. The system for reporting calling data according to claim 20, wherein the calling report generated from the SMDR formatted data is customized according to instructions received by said host central processing unit.

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